All Agency Project Request

2013 - 2015 Biennium

Agency	Institution	Building No.	Building Name
University of Wisconsin	Madison	285-0A-0857	ARS ARLING-DAIRY-BARN 3

Project No. 16C2R **Project Title** Arlington ARS Blaine Dairy Feeder Trough System

Project Intent

This project provides investigation and research, pre-design, and design services to construct twenty (20) new feed-weigh trough feeders in Barn #2 at the Blaine Dairy in the Arlington Agricultural Research Station (W6723 Badger Lane, Arlington, WI). The barn will be evaluated to identify deficiencies, develop design solution alternatives, and recommend appropriate corrective measures.

Project Description

Project work includes demolishing concrete curbs to accommodate feeders, removing steel headlocks, pouring new concrete slab to accommodate new feeders, installing twenty (20) new feed-weigh trough feeders, providing electrical power to the new feeders, and connecting a new compressed air line for the feeders into the existing compressor being used for the existing feeders. There are two trough feeder systems currently on the market. If the current system is installed then the new units will connect to the existing computer system. If a different system is installed, a new computer system will be installed.

The new feed-weigh trough feeders must be in operation by May 2017 to meet the research requirements.

Project Justification

The existing Blaine Dairy facility was constructed in 2008 as part of a Division of Facilities Development project to replace the aging dairy facility located to the east. The research barns currently contain 32 RIC feed-weigh troughs that were installed as part of the original construction. Twenty additional troughs are needed to accommodate two new professors who have received large USDA grants to do research on transition cows. These feeders are specially designed to monitor and control the individual roughage and/or water intake and intake behavior of dairy cows. These additional feeders will not modify the number of animals at the facility.

A/E Consultant Requirements

☑ A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of farm building construction as part of a design team and be familiar with electronic feeding systems. Work includes acquiring field data, and verifying as-built conditions to assure accurate development of design and bidding documents, and production of necessary design and bidding documents. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and when known, include proposed consulting partners and specialty consultants.

The consultant will verify project scope, schedule, and budget estimates, and recommend modifications as required to complete the specified project intent. The consultant will prepare a pre-design document to establish an appropriate project scope, budget, and schedule prior to the university seeking authority to construct from the Board of Regents and State Building Commission.

Commissioning

☑ Level 1

☐ Level 2

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Project Budget

Construction Cost:		$
Haz Mats:		
Construction Total:		$
Contingency:	12%	$
A/E Design Fees:	10%	$
DFD Mgmt Fees:	4%	$
Other:		$0
		$282,000

Funding Source(s)

	Total
GFSB - []	$0
PRSB - []	$0
Agency/Institution Cash [AGF0]	$282,000
Gifts	$0
Grants	$0
Building Trust Funds [BTF]	$0
Other Funding Source	$0
	$282,000

Project Schedule

SBC Approval:	08/2016
A/E Selection:	05/2016
Bid Opening:	11/2016
Construction Start:	01/2017
Substantial Completion:	05/2017
Project Close Out:	08/2017

Project Contact

Contact Name:	Matt Collins
Email:	<mcollins@fpm.wisc.edu>
Telephone:	(608) 263-3031 x

Project Scope Consideration Checklist

		y	N
1.	Will the building or area impacted by the project be occupied during construction? If yes, explain how the occupants will be accommodated during construction. *All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities. Cows will be relocated as necessary to facilitate construction work.*	☑	☐
2.	Is the project an extension of another authorized project? If so, provide the project #...	☐	☑
3.	Are hazardous materials involved? If yes, what materials are involved and how will they be handled? *Hazardous materials abatement is not anticipated on this project.*	☐	☑
4.	Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent? *All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities. Electrical and compressed air disruptions will be scheduled.*	☐	☐
5.	Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building? If yes, to what extent?	☐	☐
6.	Are other projects or work occurring within this project's work area? If yes, provide the project # and/or description of the other work in the project scope.	☐	☐
7.	Have you identified the WEPA designation of the project...Type I, Type II, or Type III? *Type III.*	☑	☐

8.	Is the facility listed on a historic register (federal or state), or is the facility listed by the Wisconsin Historical Society as a building of potential historic significance? If yes, describe here.	☐	☑
9.	Are there any other issues affecting the cost or status of this project?	☐	☑
10.	Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed solution.	☐	☑
11.	Will the project improve, decrease, or increase the function and costs of facilities operational and maintenance budget and the work load? If yes, to what extent?	☐	☑
12.	Are there known code or health and safety concerns? If yes, identify and indicate if the correction or compliance measure was included in the budget estimate, or indicate plans for correcting the issue(s).	☐	☑
13.	Are there potential energy or water usages reduction grants, rebates, or incentives for which the project may qualify (i.e. Focus on Energy <http://www.focusonenergy.com> or the local utility provider)? If yes, describe here.	☐	☑
14.	If this is an energy project, indicate and describe the simple payback on state funding sources in years and the expected energy reduction here.	☐	☑